



Impe

021-22-54

Attorney's Docket No.: 24736-2033
(17082-046001)

1631

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Braun et al.
Serial No. : 09/687,483
Conf. No. : 7859
Filed : October 13, 2000
Title : METHODS FOR GENERATING DATABASES AND DATABASES FOR
IDENTIFYING POLYMORPHIC GENETIC MARKERS

Art Unit : 1631
Examiner : Clow, L.A.

Commissioner for Patents
P.O. Box 2327
Arlington, VA 22202

TRANSMITTAL LETTER

Sir:

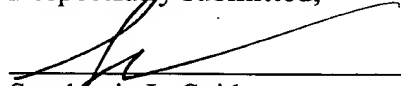
Transmitted herewith are corrected Forms PTO-1449 (3 pages), a replacement Supplemental Information Disclosure Statement and a Change of Correspondence Address Application. In the Office Action dated January 29, 2004, Examiner Clow stated that references F-N of the Form PTO-1449 (page 1) filed with the Information Disclosure Statement of March 26, 2003 and references EB, EC, ED EE, EF and EG of the Form PTO-1449 (pages 6-7) filed with the Information Disclosure Statement of February 16, 2001 were not considered and initialed because they lacked a publication date. This has been rectified and replacement Forms PTO-1449 reflecting the corrections are submitted herewith.

Also, transmitted herewith are replacement copies of an Information Disclosure Statement hand delivered on May 14, 2003, Form PTO- 1449 (2 pages), hard copies of the Foreign patents and publications, a returned postcard date-stamped received on May 14, 2003 and a copy of the check for the requisite fee. Hard copies of the U.S. Patent documents are not included per the Examiner's suggestion.

It is believed that no fee is due for filing these documents. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 06-1050, as stated below:

[X] The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,

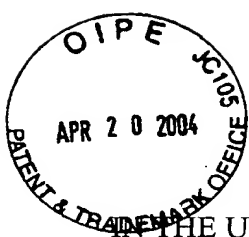

Stephanie L. Seidman
Reg. No. 33,779

Fish & Richardson P.C.
12390 El Camino Real
San Diego, California 92130
Telephone: (858) 678-5070
Facsimile: (202) 626-7796

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Services as "Express Mail" Label No. EV 399294898 US in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

April 20, 2004


Stephanie L. Seidman



Attorney's Docket No.: 24736-2033
(17082-046001)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Braun et al.
Serial No. : 09/687,483
Conf. No. : 7859
Filed : October 13, 2000
Title : METHODS FOR GENERATING DATABASES AND DATABASES FOR
IDENTIFYING POLYMORPHIC GENETIC MARKERS

Art Unit : 1631
Examiner : Clow, L.A.

Commissioner for Patents
P.O. Box 2327
Arlington, VA 22202

TRANSMITTAL LETTER

Sir:

Transmitted herewith are corrected Forms PTO-1449 (3 pages), a replacement Supplemental Information Disclosure Statement and a Change of Correspondence Address Application. In the Office Action dated January 29, 2004, Examiner Clow stated that references F-N of the Form PTO-1449 (page 1) filed with the Information Disclosure Statement of March 26, 2003 and references EB, EC, ED EE, EF and EG of the Form PTO-1449 (pages 6-7) filed with the Information Disclosure Statement of February 16, 2001 were not considered and initialed because they lacked a publication date. This has been rectified and replacement Forms PTO-1449 reflecting the corrections are submitted herewith.

Also, transmitted herewith are replacement copies of an Information Disclosure Statement hand delivered on May 14, 2003, Form PTO- 1449 (2 pages), hard copies of the Foreign patents and publications, a returned postcard date-stamped received on May 14, 2003 and a copy of the check for the requisite fee. Hard copies of the U.S. Patent documents are not included per the Examiner's suggestion.

It is believed that no fee is due for filing these documents. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 06-1050, as stated below:

[X] The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,

Stephanie L. Seidman
Reg. No. 33,779

Fish & Richardson P.C.
12390 El Camino Real
San Diego, California 92130
Telephone: (858) 678-5070
Facsimile: (202) 626-7796

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Services as "Express Mail" Label No. EV 399294898 US in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

April 20, 2004

Stephanie L. Seidman



**CHANGE OF
CORRESPONDENCE ADDRESS
Application**

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

| | |
|------------------------|---------------------------|
| Application Number | 09/687,483 |
| Filing Date | October 13, 2000 |
| First Named Inventor | Andreas Braun, et. al |
| Group Art Unit | 1631 |
| Examiner Name | Lori A. Clow |
| Attorney Docket Number | 24736-2033 (17082-046001) |

Please change the Correspondence Address for the above-identified application to:

☒ **Customer Number:** 20985

☒ **Firm or
Individual Name** Stephanie L. Seidman

Address 12390 El Camino Real

Address

City San Diego **State** CA **Zip** 92130

Country United States of America

Telephone (858) 678-5070 **Fax** (202) 626-7796

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

I am the :

- ☐ Applicant/Inventor.
- ☐ Assignee of record of the entire interest.
Certificate under 37 CFR 3.73(b) is enclosed.
- ☒ Attorney or agent of record. Registration Number 33,779
- ☐ Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number 33,779

Typed or Printed
Name

Stephanie L. Seidman

Signature

Date

04/20/04

Telephone

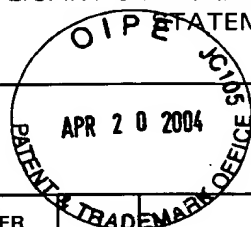
(858) 678-5070

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

| | | |
|--------------------------|----------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO. 24736-2033 | SERIAL NO. 09/687,483 |
| | APPLICANT Braun <i>et al.</i> | |
| | FILING DATE October 13, 2000 | GROUP 1631 |

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE



U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|-----------------|---|---|---|---|---|---|---|----------|-----------------------|-------|-----------|-------------|
| | A | 5 | 8 | 3 | 7 | 8 | 3 | 2 | 11/17/98 | Chee <i>et al.</i> | 536 | 22.1 | 05/16/95 |
| | B | 5 | 9 | 2 | 8 | 8 | 7 | 0 | 07/27/99 | Lapidus <i>et al.</i> | 435 | 6 | 06/16/97 |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | | | | | | | | DATE | COUNTRY | CLASS | SUB CLASS | Translation Yes No | |
|--|---|-----------------|---|---|---|---|---|---|----------|------|---------|-------|-----------|-----------------------|--|
| | C | 0 | 0 | 3 | 1 | 3 | 0 | 0 | 06/02/00 | PCT | | | | | |
| | D | 9 | 4 | 1 | 5 | 2 | 1 | 9 | 07/07/94 | PCT | | | | | |
| | E | 9 | 5 | 2 | 5 | 2 | 8 | 1 | 09/21/95 | PCT | | | | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|---|--|
| F | Genbank Accession Number AF037439 (March 13, 2003) |
| G | Genbank Accession Number NM007202 (March 13, 2003) |
| H | Genbank Accession Number AF021833 (March 13, 2003) |
| I | Genbank Accession Number AC005730 (March 13, 2003) |
| J | Genbank Accession Number AW195104 (March 13, 2003) |
| K | Genbank Accession Number AW874187 (March 13, 2003) |
| L | Genbank Accession Number AF096289 (March 13, 2003) |
| M | Genbank Accession Number X86173 (March 13, 2003) |
| N | Genbank Accession Number AJ242973 (March 13, 2003) |
| O | Huang <i>et al.</i> , "Identification of a Novel Protein Kinase A Anchoring Protein That Binds Both Type I and Type II regulatory Subunits", <i>Journal of Biological Chemistry</i> , 272(12):8057-8064 (1997) |
| P | Laken <i>et al.</i> , "Genotyping by mass spectrometric analysis of short DNA fragments", <i>Nature Biotechnology</i> , 16:1352-1356 (1998) |

EXAMINER


DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: METHODS FOR GENERATING DATABASES AND DATABASES FOR IDENTIFYING POLYMORPHIC GENETIC MARKERS

| | | |
|--------------------------|----------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO. 24736-2033 | SERIAL NO. 09/687,483 |
| | APPLICANT Braun <i>et al.</i> | |
| | FILING DATE October 13, 2000 | GROUP 1645 |

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

| | | |
|--|----|---|
|  | DQ | Glantz <i>et al.</i> , Characterization of Distinct Tethering and Intracellular Targeting Domains in AKAP75, a Protein That Links cAMP-dependent Protein Kinase II β to the Cytoskeleton, <u>J. Biol. Chem.</u> 268(17):12796-804 (1993). |
| | DR | Goldmacher <i>et al.</i> , Photoactivation of toxin conjugates, <u>Bioconj. Chem.</u> 3:104-107 (1992) |
| | DS | Guatelli <i>et al.</i> , Isothermal, <i>in vitro</i> amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication, <u>Proc. Natl. Acad. Sci. USA</u> 87:1874-8 (1990). |
| | DT | Hausken <i>et al.</i> , Mutational Analysis of the A-Kinase Anchoring Protein (AKAP)-binding Site on RII, <u>J. Biol. Chem.</u> 271(46):29016-22 (1996). |
| | DU | Hazum <i>et al.</i> , A photocleavable protecting group for the thiol function of cysteine, in <u>Pept., Proc. Eur. Pept. Symp., 16th</u> Brunfeldt, K (ed), pp. 105-110- (1981) |
| | DV | Higgins <i>et al.</i> , Competitive Oligonucleotide Single-Base Extension Combined with Mass Spectrometric Detection for Mutation Screening, <u>BioTechniques</u> 23(4):710-4 (1997). |
| | DW | Higgins <i>et al.</i> , DNA-Joining Enzymes: A Review, <u>Methods in Enzymology</u> 68:50-71 (1979). |
| | DX | Higley <i>et al.</i> , Processivity of uracil DNA glycosylase, <u>Mutation Research, DNA Repair</u> 294:109-116 (1993). |
| | DY | Hinton <i>et al.</i> , The application of robotics to fluorometric and isotopic analyses of uranium, <u>Laboratory Automation & Information Management</u> , NL, Elsevier Science publishers BV., Amsterdam, Vol. 21 no. 2/03, pp. 223-227, December 1, 1993. |
| | DZ | Huang <i>et al.</i> , D-AKAP2, anovel protein kinase A anchoring protein with a putative RGS domain, <u>Proc. Natl. Acad. Sci. USA</u> 94:11184-9 (1997). |
| | EA | Hubbard, M.J. and P. Cohen., On target with a new mechanism for the regulation of protein phosphorylation, <u>Trends Biochem. Sci.</u> 18:172-77 (1993). |
| | EB | Instrumentation; "Nano-Plotter" from GeSiM, Germany, located at http://www.gesim.de/np-intro.htm (9/7/2000) |
| | EC | Instrumentation; "Model CRS A 255" robot "Digital Servo Gripper" "Plate Cube" system. "lid parking station" "shaker" Robocon Labor-und Industrieroboter Ges.m.b.H of Austria ("Robocon") (9/8/99) |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | |
|---|----------------------------------|--------------------------|
| FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 24736-2033 | SERIAL NO. 09/687,483 |
| | APPLICANT Braun <i>et al.</i> | |
| | FILING DATE October 13, 2000 | GROUP 1645 |

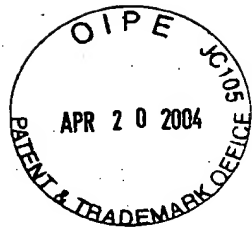


| | |
|----|---|
| ED | Instrumentation; "MJ Microseal" plate sealer; Thermal Cycler Accessories: Sealing Options, Sealing Products, MJ Research, located at http://www.mjresearch.com/html/consumables/ealing/sealing_products.html (9/8/99) |
| EE | Instrumentation; "Genesis 200/8" (200 cm with including an 8-tip arm) liquid handling systems; Tecan AG of Switzerland ("Tecan"), TECAN Products for Diagnostics and Life Science, located at http://www.tecan.ch/index.htm (9/16/99) |
| EF | Instrumentation; Bar code systems, including one and two dimensional bar codes, readable and readable/writable codes and systems; Datalogic S.p.A. of Italy ("Datalogic") located at http://www.datalogic.com (9/16/99) |
| EG | Instrumentation; DYNABEADS, streptavidin-coated magnetic beads; from Dynal, Inc. Great Neck, NY and Oslo Norway (9/8/99) |
| EH | Instrumentation; "Multimek 96" automated pipettor; Beckman Coulter, Inc. located at http://www.coulter.com , 09/08/99 |
| EI | International Search Report for International Application No. PCT/US00/08111, Date of Mailing November 13, 2000. |
| EJ | Jahnsen et al., Molecular Cloning, cDNA Structure, and Regulation of the Regulatory Subunit of Type II cAMP-dependent Protein Kinase from Rat Ovarian Granulosa Cells, <u>J. Biol. Chem.</u> 261(26):12352-61 (1986). |
| EK | Jurinke et al., Recovery of Nucleic Acids from Immobilized Biotin-Streptavidin Complexes Using Ammonium Hydroxide and Applications in MALDI-TOF Mass Spectrometry, <u>Anal. Chem.</u> 69:904-10 (1997). |
| EL | Jurinke et al., Analysis of Ligase Chain Reaction products via Matrix-Assisted Laser Desorption/Ionization Time-of-Flight-Mass Spectrometry, <u>Anal. Biochem.</u> 237:174-81 (1996). |
| EM | Jurinke et al., Detection of hepatitis B virus DNA in serum samples via nested PCR and MALDI-TOF mass spectrometry, <u>Genetic Analysis: Biomolecular Engineering</u> 13:67-71 (1996). |
| EN | Jurinke et al., Application of nested PCR and mass spectrometry for DNA-based virus detection: HBV-DNA detected in the majority of isolated anti-HBc positive sera, <u>Genetic Analysis: Biomolecular Engineering</u> 14:97-102 (1998). |
| EO | Kario et al., Genetic Determinants of Plasma Factor VII Activity in the Japanese, <u>Thromb. Haemost.</u> 73:617-22 (1995). |
| EP | Klauck et al., Coordination of Three Signaling Enzymes by AKAP79, a Mammalian Scaffold Protein, <u>Science</u> 271:1589-92 (1996). |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



THE STAMP OF THE U.S. PATENT AND TRADEMARK OFFICE AFFIXED HERETO WILL BE EVIDENCE OF RECEIPT OF THE FOLLOWING **HAND DELIVERED BY MOORELAND AND MOORE ON MAY 14, 2003:**

CLIENT #: 24736-2033 SLS:EJP:kmf
ENCLOSURES: TRANSMITTAL LETTER (in duplicate); SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (4 pages); PTO FORM-1449 (2 pages); CITED REFERENCES; CHECK IN THE AMOUNT OF \$180.00; and RETURN POSTCARD.
APPLICANT: Braun et al.
SERIAL NO: 09/687,483 FILED: October 13, 2000
FOR: METHODS FOR GENERATING DATABASES AND DATABASES FOR IDENTIFYING POLYMORPHIC GENETIC MARKERS

PLEASE STAMP HERE (THANK YOU):

THE STAMP OF THE U.S. PATENT AND TRADEMARK OFFICE AFFIXED HERETO WILL BE EVIDENCE OF RECEIPT OF THE FOLLOWING **HAND DELIVERED BY MOORELAND AND MOORE ON MAY 14, 2003:**

CLIENT #: 24736-2033 SLS:EJP:kmf
ENCLOSURES: TRANSMITTAL LETTER (in duplicate); SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (4 pages); PTO FORM-1449 (2 pages); CITED REFERENCES; CHECK IN THE AMOUNT OF \$180.00; and RETURN POSTCARD.
APPLICANT: Braun et al.
SERIAL NO: 09/687,483 FILED: October 13, 2000
FOR: METHODS FOR GENERATING DATABASES AND DATABASES FOR IDENTIFYING POLYMORPHIC GENETIC MARKERS

PLEASE STAMP HERE (THANK YOU):

RECEIVED
1600/2500
P11 2:48
03/14/14

| <u>Client / Matter</u> | <u>Date</u> | <u>Description</u> | <u>Amount</u> |
|------------------------|-------------|--------------------|---------------|
| 24736-2033 | 05/13/2003 | 04 | \$180.00 |

VENDOR CODE: 31050 COMMISSIONER FOR PATENTS
CHECK DATE: 05/13/2003
SD Operating

CHECK NUMBER: 29861
CHECK REQUEST: 329934
CHECK AMOUNT: \$180.00

Heller Ehrman
ATTORNEYS

Heller Ehrman White & McAuliffe LLP
4350 La Jolla Village Drive, 7th Floor
San Diego, CA 92122-1246

BANK OF AMERICA
San Francisco Regional
Commercial Banking Office #1499
345 Montgomery Street
San Francisco, CA 94104

1-8
210

29861 029861

Check Date: 05/13/2003

PAY ONLY: *****\$180.00

PAY ONE HUNDRED EIGHTY DOLLARS AND 00 CENTS

COUNTER SIGNATURE REQUIRED FOR AMOUNTS OVER \$2,500.00

TO
THE
ORDER
OF

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

Rhys Garden

AUTHORIZED SIGNATURE

029861 11 121000358 14990005472



May 13, 2003

VIA FEDERAL EXPRESS

MOORELAND & MOORE
2001 Jefferson Davis Highway
Suite 407
Arlington, VA 22202

Re: **Braun, et al. U.S.S.N. 09/687,483 filed October 13, 2000**
METHODS FOR GENERATING DATABASES AND DATABASES FOR
IDENTIFYING POLYMORPHIC GENETIC MARKERS
Our Docket No. 24736-2033

Gentlemen:

Please deliver the enclosed documents for Art Unit 1631 to the U.S. Patent and Trademark Office on Wednesday May 14, 2003. The documents enclosed are a Transmittal Letter (in duplicate), Supplemental Information Disclosure Statement, Forms PTO-1449 (2 pages) and cited references (1 box; 2 volumes). In addition, please have the enclosed postcard date-stamped by the PTO and returned to us at your earliest convenience. We would also appreciate receiving a confirmation from you indicating that delivery of the enclosed documents has been made.

Thank you for your assistance in this matter. If you have any questions, please do not hesitate to contact our office.

Sincerely,


Stephanie L. Seidman

SLS:ep
Encl.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Braun *et al.*

Serial No.: 09/687,483

Conf. No.: 7859

Cust. No: 24961

Filed: October 13, 2000

For: *METHODS FOR GENERATING
DATABASES AND DATABASES FOR
IDENTIFYING POLYMORPHIC
GENETIC MARKERS*

Art Unit: 1631

Examiner: Clow, L.A.



TRANSMITTAL LETTER

U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Sir:

Transmitted herewith via hand delivery are a Supplemental Information Disclosure Statement, Form PTO-1449 (2 pages), cited references and a check for requisite fee of \$180 for filing in connection with the above-identified application.

[X] The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By: _____
Stephanie L. Seidman
Registration No. 33,779

Dated: May 13, 2003
Attorney Docket No. 24736-2033
Address all correspondence to:
Stephanie L. Seidman
HELLER, EHRMAN, WHITE & McAULIFFE LLP
4350 La Jolla Village Drive, 7th floor
San Diego, CA 92122-1246
Telephone: (858) 450-8400
Facsimile: (858) 587-5360
EMAIL: sseidman@hewm.com

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Braun *et al.*

Serial No.: 09/687,483

Conf. No.: 7859

Cust. No: 24961

Filed: October 13, 2000

For: *METHODS FOR GENERATING
DATABASES AND DATABASES FOR
IDENTIFYING POLYMORPHIC
GENETIC MARKERS*

Art Unit: 1631

Examiner: Clow, L.A.



TRANSMITTAL LETTER

U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Sir:

Transmitted herewith via hand delivery are a Supplemental Information Disclosure Statement, Form PTO-1449 (2 pages), cited references and a check for requisite fee of \$180 for filing in connection with the above-identified application.

[X] The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By: _____
Stephanie L. Seidman
Registration No. 33,779

Dated: May 13, 2003

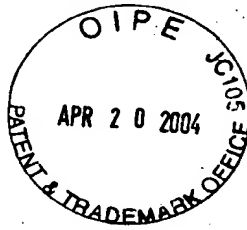
Attorney Docket No. 24736-2033

Address all correspondence to:

Stephanie L. Seidman
HELLER, EHRMAN, WHITE & McAULIFFE LLP
4350 La Jolla Village Drive, 7th floor
San Diego, CA 92122-1246
Telephone: (858) 450-8400
Facsimile: (858) 587-5360
EMAIL: sseidman@hewm.com

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Braun
Serial No.: 09/687,483
Conf. No.: 7859
Cust. No: 24961
Filed: October 13, 2000
For: *METHODS FOR GENERATING
DATABASES AND DATABASES FOR
IDENTIFYING POLYMORPHIC
GENETIC MARKERS*
Art Unit: 1631
Examiner: Clow, L.A.



**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Dear Sir:

Because this Supplemental Information Disclosure Statement is filed after receipt of a First Office Action on the Merits for the above-captioned application, the filing fee of \$180 is enclosed. If no proper payment is enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form

U.S.S.N. 09/687,483

Braun *et al.*

Supplemental Information Disclosure Statement

PTO-1449 (2 pages) and the cited references are provided herewith in connection with the above-captioned application.

The documents listed on the Form PTO-1449 and supplied herewith are in the English language with the exception of document AA. This item, which is in the Japanese language, is provided with an English abstract. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following pending, published and issued U.S. and International Applications that have one or more common inventors and/or are commonly owned.

| U.S.S.N. | Filing Date | Publication No. or Issue No. | Publication or Issue Date | Docket No. |
|------------|-------------|------------------------------|---------------------------|------------|
| 09/796,416 | 02/28/01 | 6,500,621 | 12/31/02 | 2002L |
| 09/879,341 | 06/11/01 | 2002-0150903 | 10/17/02 | 2002M |
| 10/375,714 | 02/24/03 | | | 2002N |
| 10/277,021 | 10/17/02 | | | 2003B RI |
| 08/934,455 | 09/19/97 | 6,111,251 | 08/29/00 | 2013B |
| 09/483,629 | 01/14/00 | 6,423,966 | 07/23/02 | 2013C |
| 09/628,478 | 07/31/00 | | | 2015B |
| 09/604,698 | 06/26/00 | | | 2016A |
| 10/007,557 | 11/06/01 | 2003-0003465 | 01/02/03 | 2016D |
| 09/307,006 | 05/07/99 | 6,558,902 | 05/06/03 | 2021B |
| 09/074,936 | 05/07/98 | 2001-0055811 | 12/27/01 | 2021 |
| 09/834,700 | 04/12/01 | 2002-0040130 | 04/04/02 | 2035 |
| 10/037,356 | 10/24/01 | 2002-0142483 | 10/03/02 | 2046 |
| 09/802,640 | 03/09/01 | 2003-0036057 | 02/20/03 | 2048 |

U.S.S.N. 09/687,483

Braun *et al.*

Supplemental Information Disclosure Statement

| | | | | |
|--------------|----------|--------------|----------|--------|
| 10/403,902 | 03/27/03 | | | 2048B |
| 10/128,680 | 04/22/02 | 2003-0033091 | 02/13/03 | 2050B |
| 08/715,582 | 09/19/96 | | | 2055 |
| 09/518,864 | 03/03/00 | | | 2057B |
| 09/518,749 | 03/03/00 | | | 2057C |
| 10/412,801 | 04/11/03 | | | 2064 |
| not assigned | 05/01/03 | | | 2065 |
| 60/429,895 | 11/27/02 | | | P2073 |
| 60/453,215 | 03/07/03 | | | P2074 |
| 60/453,208 | 03/07/03 | | | P2074B |
| 60/453,350 | 03/07/03 | | | P2074C |

| Int'l App. No. | Filing Date | Publication No. | Publication Date | Docket No. |
|----------------|-------------|-----------------|------------------|------------|
| PCT/US97/16115 | 09/19/97 | WO 98/12734 | 03/26/98 | 2013PC |
| PCT/US01/21308 | 07/05/01 | WO 02/04489 | 01/17/02 | 2035PC |
| PCT/US02/06728 | 03/09/01 | WO 02072604 | 01/19/02 | 2048PC |
| PCT/US02/12903 | 04/20/01 | WO 02086794 | 10/13/02 | 2050PC |
| not assigned | 04/11/03 | | | 2064PC |
| not assigned | 05/01/03 | | | 2065PC |

Additionally, documents A, B, G, I-K, and M-T listed on the Form PTO-1449 and supplied herewith are also publications of U.S. and International applications which are commonly owned and/or have one or more inventors in common.

Although these documents and information are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's

U.S.S.N. 09/687,483

Braun *et al.*

Supplemental Information Disclosure Statement

representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

* * *

Respectfully submitted,
HELLER EHRMAN WHITE & McAULIFFE LLP

By: 

Stephanie L. Seidman
Registration No. 33,779

May 13, 2003

Attorney Docket No. 24736-2033

Address all correspondence to:

Stephanie L. Seidman

HELLER EHRMAN WHITE & McAULIFFE LLP

4350 La Jolla Village Drive, 7th Floor

San Diego, California 92122-1246

Telephone: (858) 450-8400

Facsimile: (858) 587-5360

EMAIL: sseidman@hewm.com



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
24736-2033SERIAL NO.
09/687,483LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
Braun *et al.*FILING DATE
October 13, 2000GROUP
1631

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|---------------------|---|-----------------|---|---|---|---|---|---|----------|--------------------------|-------|--------------|----------------|
| | A | 0 | 0 | 0 | 9 | 3 | 9 | 4 | 01/24/02 | Köster <i>et al.</i> | 422 | 65 | 04/02/99 |
| | B | 0 | 0 | 4 | 2 | 1 | 1 | 2 | 04/11/02 | Köster <i>et al.</i> | 435 | 174 | 10/26/98 |
| | C | 5 | 6 | 3 | 5 | 7 | 1 | 3 | 06/03/97 | Labowsky | 250 | 282 | 01/16/95 |
| | D | 5 | 6 | 8 | 6 | 6 | 5 | 6 | 11/11/97 | Amirav <i>et al.</i> | 73 | 23.41 | 02/27/96 |
| | E | 5 | 8 | 5 | 3 | 9 | 7 | 9 | 12/29/98 | Green <i>et al.</i> | 435 | 5 | 06/30/95 |
| | F | 5 | 9 | 7 | 5 | 4 | 9 | 2 | 11/02/99 | Brenes | 251 | 175 | 07/14/97 |
| | G | 6 | 1 | 1 | 1 | 2 | 5 | 1 | 08/29/00 | Hillenkamp | 250 | 288 | 09/19/97 |
| | H | 6 | 1 | 8 | 8 | 0 | 6 | 4 | 02/13/01 | Köster | 250 | 282 | 01/28/99 |
| | I | 6 | 2 | 0 | 7 | 3 | 7 | 0 | 03/27/01 | Little <i>et al.</i> | 435 | 6 | 09/02/97 |
| | J | 6 | 2 | 2 | 5 | 4 | 5 | 0 | 05/01/01 | Köster | 536 | 22.1 | 06/07/95 |
| | K | 6 | 2 | 6 | 8 | 1 | 3 | 1 | 07/31/01 | Kang <i>et al.</i> | 435 | 6 | 12/15/97 |
| | L | 6 | 2 | 7 | 0 | 8 | 3 | 5 | 08/07/01 | Hunt <i>et al.</i> | 427 | 79 | 10/07/99 |
| | M | 6 | 2 | 7 | 7 | 5 | 7 | 3 | 08/21/01 | Köster <i>et al.</i> | 435 | 6 | 04/06/99 |
| | N | 6 | 3 | 0 | 0 | 0 | 7 | 6 | 10/09/01 | Köster | 435 | 6 | 01/31/00 |
| | O | 6 | 3 | 2 | 2 | 9 | 7 | 0 | 11/27/01 | Little <i>et al.</i> | 435 | 6 | 09/02/98 |
| | P | 6 | 4 | 2 | 3 | 9 | 6 | 6 | 07/23/02 | Hillenkamp <i>et al.</i> | 250 | 288 | 01/14/00 |
| | Q | 6 | 4 | 2 | 8 | 9 | 5 | 5 | 08/06/02 | Köster <i>et al.</i> | 435 | 6 | 11/06/96 |
| | R | 6 | 4 | 3 | 6 | 6 | 3 | 5 | 08/20/02 | Fu <i>et al.</i> | 435 | 6 | 03/12/96 |

FOREIGN PATENT DOCUMENTS

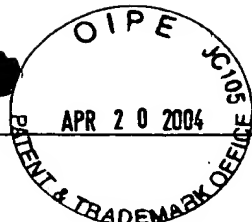
| | | DOCUMENT NUMBER | | | | | | | DATE | COUNTRY | CLASS | SUB CLASS | Translation Yes No | |
|--|---|-----------------|---|---|---|---|---|---|----------|---------|-------|--------------|-----------------------|--|
| | S | 9 | 6 | 3 | 2 | 5 | 0 | 4 | 10/17/96 | PCT | | | | |
| | T | 9 | 8 | 1 | 2 | 7 | 3 | 4 | 03/26/98 | PCT | | | | |
| | | | | | | | | | | | | | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
24736-2033

SERIAL NO.
09/687,483

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

APPLICANT
Braun *et al.*

FILING DATE
October 13, 2000

GROUP
1631

| | |
|----|--|
| U | "Red Tape: It's in You to Give: Last year the Canadian Blood Services' security measures weeded out 200,000 would-be donors. Doug Fischer looks at the reasons behind the red tape." <i>Ottawa Citizen Saturday Final Edition</i> October 5, 2002 |
| V | Cai <i>et al.</i> , "Different Discrete Wavelet Transforms Applied to Denoising Analytical Data," <i>J. Chem. Inf. Comput. Sci.</i> 38 : 1161-1170 (1998) |
| W | Cavalli-Sforza, L.I., "The DNA revolution in population genetics," <i>Trends in Genetics</i> 14 (2): 60-65 (1998) |
| X | Dittmar, M., "Review of studies of polymorphic blood systems in the Aymara indigenous population from Bolivia, Peru, and Chile," <i>Anthropol. Anz.</i> 53 (4): 289-315 (1995) |
| Y | Dodgson <i>et al.</i> , "DNA Marker Technology: A Revolution in Animal Genetics," <i>Poultry Science</i> 76 : 1108-1114 (1997) |
| Z | Hey, J., "Population genetics and human origins haplotypes are key," <i>Trends in Genetics</i> 14 (8): 303-305 (1998) (with reply by L. Cavalli-Sforza) |
| AA | Ikemoto, S., "Searching for Genetic Markers In the Fields of Forensic Medicine and Human Genetics," <i>Nippon Hoigaku Zasshi</i> 49 (6): 419-431 (1995) |
| AB | Nagamura <i>et al.</i> , "Rice molecular genetic map using RFLPs and its applications," <i>Plant Molecular Biology</i> 35 : 79-87 (1997) |
| AC | Nelson <i>et al.</i> , "The Accuracy of Quantification from 1D NMR Spectra Using the PIQABLE Algorithm," <i>Journal of Magnetic Resonance</i> 84 : 95-109 (1989) |
| AD | Paterson, A.H., "Molecular Dissection of Quantitative Traits: Progress and Prospects," <i>Genome Research</i> 5 (4): 321-333 (1995) |
| AE | Pena <i>et al.</i> , "DNA diagnosis of human genetic individuality," <i>J. Mol. Med.</i> 73 : 555-564 (1995) |
| AF | Polettini <i>et al.</i> , "Fully-automated systematic toxicological analysis of drugs, poisons, and metabolites in whole blood, urine, and plasma by gas chromatography - full scan mass spectrometry," <i>Journal of Chromatography B</i> 713 : 265-279 (1998) |
| AG | Thompson, J.N., "Fitting robots with white coats," <i>Laboratory Automation and Information Management</i> 31 : 173-193 (1996) |
| AH | Yasuda <i>et al.</i> , "Genetic Polymorphisms Detectable in Human Urine: Their Application to Forensic Individualization," <i>Japanese Journal of Legal Medicine</i> 51 : 407-416 (1997) |
| | |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.